

ABSTRACT

A ferritic stainless steel sheet contains about 0.01 percent by mass or less of carbon; about 1.0 percent by mass or less of silicon; about 1.5 percent by mass or less of manganese; about 11 to about 23 percent by mass of chromium; about 0.06 percent by mass or less of phosphorous; about 0.03 percent by mass or less of sulfur; about 1.0 percent by mass or less of aluminum; about 0.04 percent by mass or less of nitrogen; about 0.0005 to about 0.01 percent by mass of boron; about 0.3 percent by mass or less of vanadium; about 0.8 percent by mass or less of niobium and/or about 1.0 percent by mass or less of titanium wherein $18 \leq Nb/(C + N) + 2(Ti/(C + N)) \leq 60$; and the balance being iron and unavoidable impurities. The average crystal grain diameter is about 40 μm or less and the average surface roughness is about 0.3 μm or less.